

Northern Everglades & Estuaries Protection Program

Rivers Watershed Protection Plans

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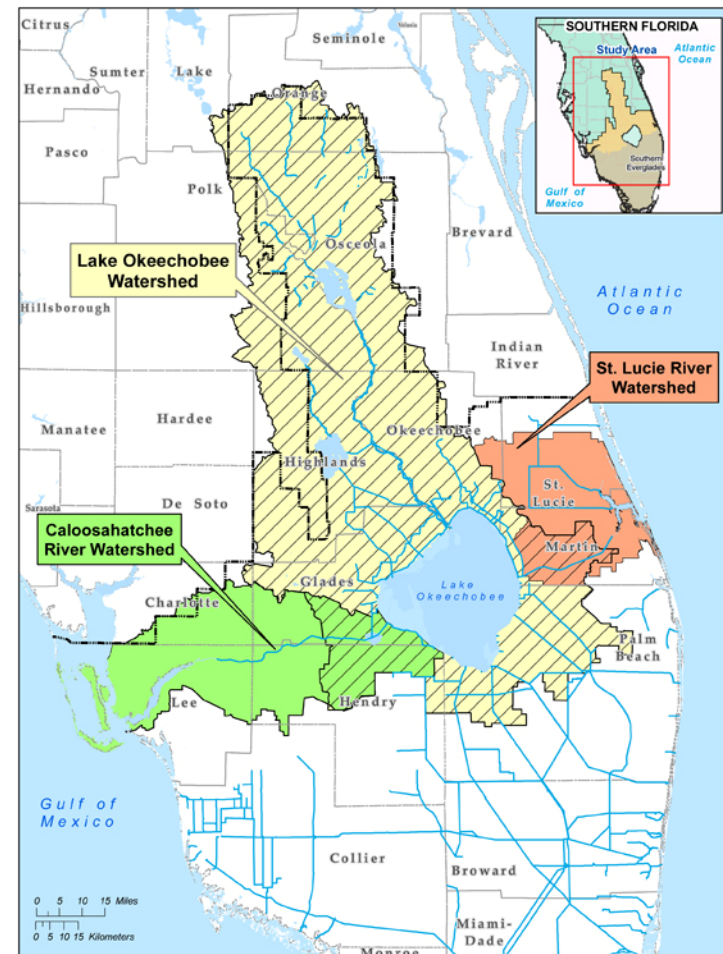
Governing
Board Strategic
Planning Meeting

March 12, 2009



Northern Everglades and Estuaries 2007 Legislation

- Required development of Caloosahatchee and St. Lucie River Watershed Protection Plans
 - Identify water quality and storage projects
 - Due by Jan 1, 2009
- Included requirements for-
 - Annual Reports
 - Triennial Plan Updates



River Watershed Protection Plan- Objectives

- Nutrient load reductions to achieve adopted Total Maximum Daily Loads
- Reduce frequency and duration of undesirable salinity ranges in estuary, while meeting other water-related needs of the region



River Watershed Protection Plan - Elements

- Watershed Pollutant Control Program
- Watershed Construction Project
- Watershed Research and Water Quality Monitoring Program













Preferred Plan Summary

St. Lucie Preferred Plan	Caloosahatchee Preferred Plan
<ul style="list-style-type: none"> • Indian River Lagoon-South Project • BMPS/Regulatory Programs • Additional regional phosphorus treatment in C-23/24 basin • Local quality/quantity projects (e.g., stormwater retrofits; septic conversions; Alternative Water Storage Facilities) 	<ul style="list-style-type: none"> • C-43 West Reservoir • BMPs/Regulatory Programs • Additional storage • Regional water quality projects- emphasis on nitrogen • Local quality/quantity projects (e.g., stormwater retrofits; septic conversions- Lehigh, Cape Coral; Alternative Water Storage Facilities) • Additional watershed monitoring in watershed
Summary	Summary
<ul style="list-style-type: none"> • ~200,000 ac-ft/yr storage (IRL and Ten Mile Creek) • Nutrient treatment- primarily phosphorus treatment 	<ul style="list-style-type: none"> • ~400,000 ac-ft/yr storage (including C-43 West Reservoir) • Nutrient treatment- primarily nitrogen treatment















Plan Implementation Strategy

- Multiple Phases
 - Phase I - projects initiated 2009-2012
 - Phase II - projects initiated 2013-2018
 - Long Term Implementation Phase - projects initiated beyond 2018

Caloosahatchee Plan - Phase I (2009-2012)

		Initiated	Completed
Construction Project	Powell Creek Algal Turf Scrubber		
	Alternative Water Storage Facilities- Barron Water Control District		
	Caloosahatchee Area Lakes Restoration (Lake Hicpochee)		
	C-43 Water Quality Treatment Demonstration Project (BOMA)		
	Spanish Creek/Four Corners Environmental Restoration Phase I		
	C-43 West Reservoir		
	Local-Stormwater Projects (e.g., treatment wetlands, conveyance and structural improvements, and stormwater recovery projects)		
	Florida Ranchlands and Environmental Services Projects		
	Farm and Ranchland Protection Program		

St. Lucie Plan - Phase I (2009-2012)

		Initiated	Completed
Construction Project	Alternative Water Storage Facilities- Indiantown Citrus Growers Association Phase I and II		
	Florida Ranchlands and Environmental Services Projects (Alderman-Deloney complete)		
	CERP-IRL South: C-44 Reservoir/STA		
	CERP-IRL South: Allapattah Complex- Natural Storage and Water Quality Area		
	Alternative Water Storage Facilities-Indiantown Citrus Growers Association- Phase III, Dupuis, Waste Management St Lucie Site, Caulkins		
	Hybrid Wetland Treatment Technology Pilot Project		
	Local-Stormwater Projects (e.g., retention/detention ponds, treatment wetlands, conveyance and structural improvements)		
	Local-Wastewater Projects (e.g., sludge disposal management, sewage treatment and disposal systems)		
	Local- Habitat Restoration (e.g., muck removal, oyster balls)		
	Florida Ranchlands and Environmental Services Projects		
	Farm and Ranchland Protection Program		

Plans Submittal and Ratification

- Final Plans submitted to the Legislature on Jan 1, 2009
- If the Legislature takes no action on the plans during the 2009 legislative session, the plans are deemed approved and may be implemented
- The River Watershed Protection Plans will provide the basis for FDEP's Basin Management Action Plan development

Ongoing Projects

- C-43 Water Quality Treatment and Testing Facility
- Spanish Creek/Four Corners Phase I
- Powell Creek Algal Turf Scrubber
- 5/5/5 Projects with Martin County
- Hybrid Wetland Treatment Technology Pilot Projects
- Alternative Water Storage Projects/Florida Ranchlands and Environmental Services Projects

Emerging Issues

- Freshwater and Estuarine Total Maximum Daily Loads (TMDLs) and associated Basin Management Action Plans (BMAPs)
- Nitrogen treatment technologies

Questions?



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

